## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 1 July 2004 (01.07.2004)

**PCT** 

(10) International Publication Number WO 2004/055154 A2

(51) International Patent Classification7:

**C12N** 

(74) Agents: PEAUCELLE, Chantal et al.; Cabinet Armengaud Aine, 3, Avenue Bugeaud, F-75116 Paris (FR).

(21) International Application Number:

PCT/EP2003/015047

(22) International Filing Date:

17 December 2003 (17.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/433,767 17 December 2002 (17.12.2002) US 60/433,960 18 December 2002 (18.12.2002) US

- (71) Applicant (for all designated States except US): CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS) [FR/FR]; 3, rue Michel Ange, F-75794 Paris Cedex 16 (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MELJER, Laurent [FR/FR]; de Bir-Hakeim, 16, F-29682 Roscoff (FR). KNOCKAERT, Marie [FR/FR]; Route du Laber, F-29680 Roscoff (FR). MALGRANGE, Brigitte [BE/BE]; Au Trihay, 13, B-4053 Embourg (BE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FT, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,

SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,

SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,

UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(<u>54) Title:</u> MEANS FOR INDUCING DIFFERENTIATION OF SUPERNUMERARY HAIR CELLS AND DEITERS' CELLS IN THE DEVELOPING ORGAN OF CORTI.